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1 [SpotWeb: detecting framework hotspots via mining open source repositories](#)

Suresh Thummala, Suresh Thummala, Tao Xie

May 2008 **MSR '08: Proceedings of the 2008 international working conference on Mining software repositories**
Publisher: ACM

Full text available: [Pdf](#) (334.93 KB)

Additional Information: [full citation](#), [abstract](#), [bibTeX](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 53, Downloaded by 1 user

The essentials of modern software development (such as low cost and high quality) often require reuse of existing open source frameworks. However, developers to make intensive reuse of existing open source frameworks available on the web. However, ...

Keywords: code reuse, code search engine, hotspots

2 [Framework for instruction-level tracing and analysis of program execution traces](#)

Sanjay Bhansali, Wen-Ke Chen, Stuart de Jong, Andrew Edwards, Ron Murchison, Ming Chau

June 2006 **VEE '06: Proceedings of the 2nd international conference on Virtual Execution Environments**
Publisher: ACM

Full text available: [Pdf](#) (227.87 KB)

Additional Information: [full citation](#), [abstract](#), [bibTeX](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 85, Downloaded by 1 user

Program execution traces provide the most intimate details of a program's execution. They can be used for program optimization, failure diagnosis, collecting software metrics and for understanding major obstacles to exploiting ...

Keywords: callback, code emulation, code replay, time-travel debugging, trace analysis

3 [Searching the Web](#)

Arvind Arasu, Junghee Cho, Hector Garcia-Molina, Andreas Paepcke, Sriram Krishnamurthy, August 2001 **Transactions on Internet Technology (TOIT)**, Volume 1 Issue 1

Publisher: ACM

Full text available: [Pdf](#) (319.98 KB)

Additional Information: [full citation](#), [abstract](#), [bibTeX](#)

Bibliometrics: Downloads (6 Weeks): 72, Downloads (12 Months): 486, Downloaded by 1 user

We offer an overview of current Web search engine design. After introducing the basic components of a search engine, we examine each engine component in turn. We cover crawling, local Web indexing, document representation, and query processing.

link analysis for boosting ...

Keywords: HITS, PageRank, authorities, crawling, indexing, information

4 Scalable multicast based filtering and tracing framework for defeating distributed denial of service attacks

Jangwon Lee, Gustavo de Veciana

January 2005 **International Journal of Network Management**, Volume 15

Publisher: John Wiley & Sons, Inc.

Full text available:  Pdf (213.52 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 12, Download

In this paper we present a distributed scalable framework to support on defeating distributed denial of service attacks. Our filtering mechanism boundary filter locations ...

5 Extending the lifetime of wireless sensor networks through mobile relay nodes

Wei Wang, Vikram Srinivasan, Kee-Chaing Chua

October 2008 **IEEE/ ACM Transactions on Networking (TON)**, Volume 16

Publisher: IEEE Press  Request Permissions

Full text available:  Pdf (1.14 MB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 69, Downloads (12 Months): 149, Download

We investigate the benefits of a heterogeneous architecture for wireless few resource rich mobile relay nodes and a large number of simple static sensors than the static sensors. ...

Keywords: mobile relay, network lifetime, sensor networks

6 Matching and Merging of Statecharts Specifications

Shiva Nejati, Mehrdad Sabetzadeh, Marsha Chechik, Steve Easterbrook, Pa

May 2007 **ICSE '07: Proceedings of the 29th international conference on**

Publisher: IEEE Computer Society

Full text available:  Pdf (775.46 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 84, Download

Model Management addresses the problem of managing an evolving collection of models. It provides operators to manage relationships between models and providing well-defined operators to merge two such operators for manipulating ...

7 Runtime Power Monitoring in High-End Processors: Methodology and Tools

Canturk Isci, Margaret Martonosi

December 2003 **MICRO 36: Proceedings of the 36th annual IEEE/ACM International Conference on Microarchitecture**

Publisher: IEEE Computer Society

Full text available:  Pdf (921.50 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 138, Download

With power dissipation becoming an increasingly vexing problem across all computing systems, measuring power dissipation of real, running systems has become crucial

research and design. Live power measurements ...

8 Eliminating stack overflow by abstract interpretation

 John Regehr, Alastair Reid, Kirk Webb

November 2005 **Transactions on Embedded Computing Systems (TEC)**

Publisher: ACM 

Full text available:  Pdf (510.78 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 26, Downloads (12 Months): 102, Download Rank: 1000

An important correctness criterion for software running on embedded microcontrollers is that the call stack does not overflow. Our first contribution is a method for interrupt-driven ...

Keywords: Microcontroller, abstract interpretation, call stack, context switch, interrupt-driven, sensor network

9 Substitutes or complements: another step forward in recommendation systems

 Jigian Zheng, Xiaoyuan Wu, Junyu Niu, Alvaro Bolívar

July 2009 **EC '09: Proceedings of the tenth ACM conference on Electronic Commerce**

Publisher: ACM 

Full text available:  Pdf (604.01 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 25, Downloads (12 Months): 32, Download Rank: 1000

In this paper, we introduce the method tagging substitute-complement relations, and elaborate how this step contributes to electronic merchandise recommendation in building recommender systems. ...

Keywords: complement, merchandise, relation, substitute

10 Phase tracking and prediction

 Timothy Sherwood, Suleyman Sair, Brad Calder

June 2003 **ISCA '03: Proceedings of the 30th annual international symposium on Computer architecture**

Publisher: ACM

Full text available:  Pdf (674.18 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 79, Download Rank: 1000

In a single second a modern processor can execute billions of instructions. Predicting the behavior of a program at these speeds can be a difficult task when all the code is present. Program examination. In many programs, behavior ...

Also published in:

May 2003 **SIGARCH Computer Architecture News** Volume 31 Issue 2

11 Autonomic specification of self-protection for distributed MARF with /

 Serguei A. Mokhov, Emil Vasilev

May 2009 **C3S2E '09: Proceedings of the 2009 C3S2E conference**

Publisher: ACM 

Full text available:  Pdf (1.79 MB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 28, Download

This paper presents practical results of our endeavor towards formal specification of the Autonomic Distributed Modular Audio Recognition Framework (AD-MARF) using the Autonomic System Specification Language (ASSL) to design ...

Keywords: autonomic computing, autonomic system specification language, audio recognition framework (DMARF), pattern recognition, self-protection

12 Sensor: the atomic computing particle



Vijay Kumar

December 2003 **SIGMOD Record**, Volume 32 Issue 4

Publisher: ACM

Full text available: Pdf (176.98 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 36, Download

We visualize the world as a fully connected information space where each object is a node and can interact with any other object without any temporal and geographical constraints. We can model the interactions at different levels of granularity processing which can ...

13 Evaluating collaborative filtering recommender systems



Jonathan L. Herlocker, Joseph A. Konstan, Loren G. Terveen, John T. Riedl
January 2004 **Transactions on Information Systems (TOIS)**, Volume 22 Issue 1

Publisher: ACM

Full text available: Pdf (253.92 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 233, Downloads (12 Months): 2049, Download

Recommender systems have been evaluated in many, often incomparable ways. In this article we compare the decisions in evaluating collaborative filtering recommender systems: the metrics used, the analysis and datasets being ...

Keywords: Collaborative filtering, evaluation, metrics, recommender systems

14 Comparison of online social relations in volume vs interaction: a case study



Hyunwoo Chun, Haewoon Kwak, Young-Ho Eom, Yong-Yeol Ahn, Sue Moon
October 2008 **IMC '08: Proceedings of the 8th ACM SIGCOMM conference on Internet measurement**

Publisher: ACM

Full text available: Pdf (1.10 MB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 122, Downloads (12 Months): 777, Download

Online social networking services are among the most popular Internet services. They have become a key feature in many Internet services. Users interact through these services: making friend ...

Keywords: clustering coefficient, cyworld, degree correlation, degree distribution, guestbook log, k-core, network motif, online social network, reciprocity

15

Fidelity and yield in a volcano monitoring sensor network

Geoff Werner-Allen, Konrad Lorincz, Jeff Johnson, Jonathan Lees, Matt Wel

November 2006 **OSDI '06: Proceedings of the 7th symposium on Operating****Publisher:** USENIX AssociationFull text available:  Pdf (1.53 MB)Additional Information: [full citation](#), [abstract](#)**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 102, Download

We present a science-centric evaluation of a 19-day sensor network deployed in Ecuador. Each of the 16 sensors continuously sampled seismic and acoustic data, and used an event-detection algorithm to trigger ...

16 TCP smart framing: a segmentation algorithm to reduce TCP latency

Marco Mellia, Michela Meo, Claudio Casetti

April 2005 **IEEE/ ACM Transactions on Networking (TON)**, Volume 13**Publisher:** IEEE PressFull text available:  Pdf (608.38 KB)Additional Information: [full citation](#), [abstract](#)**Bibliometrics:** Downloads (6 Weeks): 12, Downloads (12 Months): 73, Download

TCP Smart Framing, or TCP-SF for short, enables the Fast Retransmit/Reno algorithm to work even if the congestion window is small. Without modifying the TCP congestion control mechanism, TCP-SF increases the TCP throughput by increasing/multiplicative-decrease paradigm, TCP-SF ...

Keywords: TCP enhancements, performance evaluation, protocol design**17 An approach to modeling performance evaluation on the ethernet with QoS**

Shin-Jer Yang

March 2001 **International Journal of Network Management**, Volume 11**Publisher:** John Wiley & Sons, Inc.Full text available:  Pdf (155.27 KB)Additional Information: [full citation](#), [abstract](#)**Bibliometrics:** Downloads (6 Weeks): 1, Downloads (12 Months): 4, Download

This paper proposes an empirical approach to model the performance of Ethernet with Quality of Service parameters. Hence, how to model the performance of Ethernet with Quality of Service implementation and operation. In ...

18 The design and evaluation of a mobile sensor/actuator network for a cattle breeding application

Tim Wark, Chris Crossman, Wen Hu, Ying Guo, Philip Valencia, Pavan Sikkha, Mark Henshall, Kishore Prayaga, Julian O'Grady, Matt Reed, Andrew Fisher

April 2007 **IPSN '07: Proceedings of the 6th international conference on****Publisher:** ACMFull text available:  Pdf (2.04 MB)Additional Information: [full citation](#), [abstract](#)**Bibliometrics:** Downloads (6 Weeks): 36, Downloads (12 Months): 233, Download

This paper investigates a mobile, wireless sensor/actuator network application for cattle breeding. Our goal is to prevent fighting between bulls in on-farm breeding by providing appropriate stimuli when one bull ...

Keywords: application, autonomous animal control, sensor/actuator networks

 Summarizing application performance from a components perspective

Kavitha Srinivas, Harini Srinivasan

September 2005 **ESEC/FSE-13**: Proceedings of the 10th European software engineering conference and the 13th ACM SIGSOFT international symposium on Foundations of Software Engineering**Publisher:** ACM  [Request Permissions](#)Full text available:  [Pdf](#) (305.09 KB)Additional Information: [full citation](#), [abstract](#)**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 31, Download Rank: 1000

In the era of distributed development, it is common for large applications to consist of multiple component layers that are developed by different development teams. In such environments, it is often difficult to trace the source of a performance regression because of the large number of invocations (average call ...).

Keywords: blame assignment, performance analysis, regression, segmentation, software reuse

Also published in:

September 2005 **SIGSOFT Software Engineering Notes** Volume 30 Issue 5**20 MOLAR: adaptive runtime support for high-end computing operating systems** Christian Engelmann, Stephen L. Scott, David E. Bernholdt, Narasimha R.

Jyothish Varma, Chao Wang, Frank Mueller, Aniruddha G. Shet, P. Sadayappan

April 2006 **SIGOPS Operating Systems Review**, Volume 40 Issue 2**Publisher:** ACMFull text available:  [Pdf](#) (522.07 KB)Additional Information: [full citation](#), [abstract](#)**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 44, Download Rank: 1000

MOLAR is a multi-institutional research effort that concentrates on adapting existing runtime system (OS/R) solutions for ultra-scale high-end scientific computing systems, such as supercomputers. This research ...

Keywords: RAS, availability, fault tolerance, group membership, high-reliability, high-performance, reliabilityResult page: [1](#) [2](#)

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